

Title (en)  
PROCESS FOR RECYCLING ALUMINIUM-BEARING COMPOSITE MATERIALS

Title (de)  
VERFAHREN ZUR WIEDERVERWERTUNG VON ALUMINIUMHALTIGEN VERBUNDWERKSTOFFEN

Title (fr)  
PROCÉDÉ DE RECYCLAGE DE MATÉRIAUX COMPOSITES COMPRENANT L'ALUMINIUM

Publication  
**EP 1979497 A2 20081015 (EN)**

Application  
**EP 07701595 A 20070109**

Priority  
BR 2007000009 W 20070109

Abstract (en)  
[origin: WO2008083449A2] A process for recycling composite materials includes the steps of feeding a quantity of composite material composed of at least one polymer and aluminum into at least one first reactor; heating the composite material in a non-oxidizing environment at a temperature sufficient to volatilize the at least one polymer and form a hydrocarbon by-product and aluminum in the at least one first reactor; feeding the aluminum free of the at least one polymer into a second reactor; and heating the aluminum in a non-oxidizing environment at a temperature sufficient to melt the aluminum in the second reactor.

IPC 8 full level  
**C22B 7/00** (2006.01); **C10B 47/44** (2006.01); **C22B 9/22** (2006.01); **C22B 21/06** (2006.01); **F23G 5/027** (2006.01); **F23G 5/44** (2006.01); **F23G 7/00** (2006.01); **F27B 9/20** (2006.01); **F27D 3/08** (2006.01); **F27D 13/00** (2006.01)

CPC (source: EP KR)  
**B29B 17/00** (2013.01 - KR); **C08J 11/00** (2013.01 - KR); **C10B 47/44** (2013.01 - EP); **C22B 7/001** (2013.01 - EP); **C22B 7/004** (2013.01 - EP); **C22B 9/02** (2013.01 - KR); **C22B 9/226** (2013.01 - EP); **C22B 21/00** (2013.01 - KR); **C22B 21/0069** (2013.01 - EP); **C22B 21/0092** (2013.01 - EP); **F23G 5/027** (2013.01 - EP); **F23G 5/444** (2013.01 - EP); **F23G 7/003** (2013.01 - EP); **C21D 3/02** (2013.01 - EP); **F23G 2201/301** (2013.01 - EP); **F23G 2202/20** (2013.01 - EP); **F23G 2203/8013** (2013.01 - EP); **F23G 2204/201** (2013.01 - EP); **F23G 2205/121** (2013.01 - EP); **Y02P 10/20** (2015.11 - EP)

Cited by  
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AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK RS

DOCDB simple family (publication)  
**WO 2008083449 A2 20080717**; **WO 2008083449 A3 20090402**; AT E548472 T1 20120315; AU 2007260796 A1 20080724; AU 2007260796 B2 20100902; BR PI0706854 A2 20110412; CA 2612598 A1 20080709; CA 2612598 C 20111101; CN 101484595 A 20090715; CN 101484595 B 20120711; EP 1979497 A2 20081015; EP 1979497 A4 20101117; EP 1979497 B1 20120307; ES 2383208 T3 20120619; JP 2009535204 A 20091001; JP 5053366 B2 20121017; KR 101085930 B1 20111122; KR 20090031341 A 20090325; MX 2008000015 A 20081001

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